Evita 2 dura
Technical Service Bulletin # 20a

Re: **New software version 4.10**

Update: February 13, 2003

Reference Doc: N/A

Reason: The following product improvements are available:

- Quieting of HPSV harmonic resonance in low flow situations on units with the Neoflow option.
- Elimination of unwanted “Temp probe ?” alarm errors.
- Elimination of unwanted Tinsp alarms in mixed modes (SIMV/Psupp) of ventilation in Neoflow.
- Correction of occasional lack of previous successful device checks being displayed.
- Correction of intermittent inability to set humidifier configuration.
- Correction of volume curve disappearance under certain conditions.
- Elimination of irrelevant display of I:E relation window in NIV.
- Adjustment of application and cancellation of Testflow during device check.
- Correction of transmission errors when using Evita Link Option COM2 or COM3 with an external monitor
- Shortened timeout from 30 to 15 seconds for operator to confirm machine setting changes.

Solution: Installation of new software version SW 4.10.

Devices affected: The software update with software version 4.10 is recommended for all Evita 2 dura units.

When: At next Service Call, Preventive Maintenance, or customer request.

Additional Info 1: Any updates/upgrades to machines that were SW version 3.21 or prior will require a clinical in-service or supply of SW 4 Trainer CDROM with P/N 4117256.

Additional Info 2: After downloading the new software, perform a device check in stand-by. The message "Loss of data" may occur shortly after first power on after this download and is not a device malfunction. The message will disappear after the internal data backup is completed.

Additional Info 3: See Instructions for TSB #20a- Neoflow units only. (see attachment)

Cost: The Evita 2 dura SW 4.10 update kit P/N 8414669 including installation is free of charge for Customers in the USA and Canada.
Note for US Dräger TSRs: Use Job Type “Customer Accommodation”.
All other options and their installation are covered by Customer.

Ordering Info: Evita 2 dura software version 4.10 upgrade kit P/N 8414669.
The kit consists of Operating Instructions for the Evita 2 dura, Neoflow Operating Instructions, option label, disk with SW 4.10, and new keypad labels.

Distribution: Dräger Service Personnel and Authorized Service Organizations for CCS products.

If you have any questions, please contact Technical Support by phone at 1-800-543-5047 or by fax at 1-215-721-5789

Dräger Medical, Inc.
Technical Product Manager

Instructions for TSB # 20a – (for units fitted with Neoflow™ only)

For units with Neoflow, SW 4.10 allows for optional pulse threshold settings varying between 1 lpm and 5 lpm. 5 lpm is the standard default. It is recommended that the pulse threshold be kept at 5 lpm unless the sound compensation at 5 lpm is inadequate. Other problems such as high PEEP alarms and FiO2 deviations might be more sensitive at lower pulse threshold settings.

If attempting to set pulse threshold for 3 lpm or less monitor unit closely for accurate data. If any inaccuracies occur, please reset pulse threshold to a higher setting.

Code release inputs necessary to engage the pulse threshold adjustment can be accessed through the service entry keypad in the configuration menu:

Touch the soft key “Configuration”
Then touch the screen key “Defaults”
Next touch the screen key “Service”

On the numerical touch pad enter in the entry or “Lead in” code 3799
To change the HPSV pulse threshold to a new default level enter in a second set of four digits to re-set the pulse threshold:

5 lpm = 3755, 4 lpm = 3764, 3 lpm = 3773, 2 lpm = 3782, 1 lpm = 3791

Once the code is entered there should be a text message on the lower bar of the screen indicating a change in the pulse threshold.

To confirm the adjustment change return to the service page function and enter the service entry code, 4655 and the touch the “pneumatics” screen key. In the center row two bracketed pieces of information should be available indicating the base flow: (BF 6) and the Pulse threshold (1) which should indicate the pulse threshold level of the HPSV.

Addendum: It also possible to change the base flow in NeoFlow™ from 6 lpm to 9 lpm using a similar code entry. However, it is recommended that bias flow be kept at 6 lpm unless the sound compensation using the Pulse threshold is inadequate. Other problems such as high PEEP alarms might be more sensitive with the increased bias flow.

The code numbers for the bias flow change are:
Lead-in code-4299
BF at 6 lpm-4246
BF at 9 lpm-4219

Therefore to make the change one must proceed to the service code keypad and enter the eight (8) digit code. Either 4299 4246 (6 lpm) or 4299 4219 (9 lpm).